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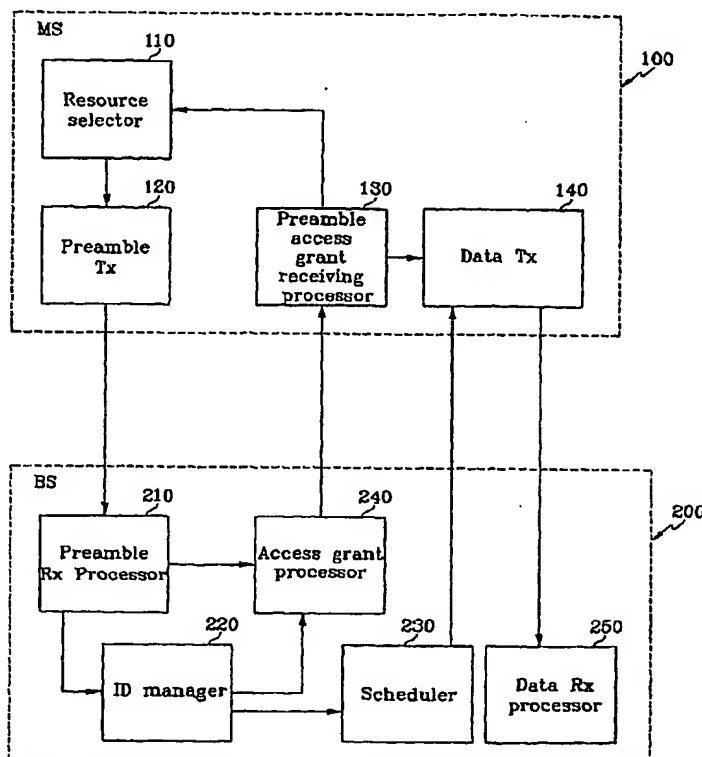
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(54) Title: **SYSTEM AND METHOD FOR TRANSMITTING RANDOM ACCESS DATA USING ORTHOGONAL
FREQUENCY DIVISION MULTIPLE ACCESS**



(57) Abstract: Disclosed is a random access data transmission system and method using OFDMA. The system includes a scheduling ID into an access grant on a preamble for a random access, and transmits it together with an acknowledgment or a non-acknowledgment of the preamble, a base station uses the scheduling ID to notify the mobile station of a random access data transmittable time and a data transmission channel through a control channel, and the mobile station transmits a preamble in advance. After receiving a transmission assignment instruction corresponding to a scheduling ID through the control channel, the mobile station transmits random access data through an assigned channel.

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